MAY
VOL. 6

San Antonio Radio Club

1975
No. 4

BULL-ETIN

President - Bill Way WA5QHG
Vice Pres. - Clay Laster W5ZPV
Secretary - Larry Humlicek WA5PAF
Treasurer - Frank Box WA5VFM
Sgt-at-Arms - Michael Rittimann WB5GAI

Meets first and third Fridays at 7:30 P.M. at the Red Cross Building, 90 Brees St. ALL who have an interest in amateur radio are cordially invited to attend.

Bull-etin Editor, Dean Davis W5BGE Asst. Ed., Maybelle Davis
Circulation Mgr., Bob Via WB5FDT

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Letters to the editor should be addressed to 1518 Santa Anna, San Antonio, Texas 78201

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By The WAY

By WA5QHG Bill Way

The June 15 deadline for filing on Docket 20282 is rapidly approaching. In this BULL-ETIN you will find a format for arranging your reply--read it with care, as it will be necessary for you to use every available help to get your points over with the greatest impact.

Clay W5ZPV, our program chairman, announces the following future programs:
1st June meeting--Field Day Info, Corky WB5CIT.
2nd June meeting--Heathkit SB-104 Demonstration, George WB5LDN.
2nd July meeting--Frequency Counters, George W5VPQ.
2nd Aug. meeting--Homebrew Equipment (Show and Tell) Meeting
All members--please bring your favorite gadget.

Appreciation is expressed to the Club's committee on developing the letter to the FCC concerning Docket 20282--Trent WB0HZL, David Weaver and Clay W5ZPV. Also thanks to Davids XYL, Lucy, for the typing. 73, Bill Way WA5QHG

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FIELD DAY FIELD DAY

By Corky WB5CIT

Once again fellow Amateurs it's time for the greatest contest of the year, Field Day, 1975. Again the San Antonio Repeater Organization will hold a Swap-Fest Saturday afternoon. Other groups helping will be The Alamo YL's and New Braunsfel High School Radio Club., also the Alamo DX Amigos and the QCWA.

Field Day will be held June 28 and 29 at the Northeast Game Preserve. Those who operate all Saturday night will be served breakfast by Bob WN5MCJ amd his crew. Soft drinks and beer will be available during the operation.

Almost total coverage of 160 through 2 meters is planned, using both CW and SSB. For information on the rules, please see May "QST", page 74 and come to the first SARC meeting in June. We are pleased to announce that there will be a great Novice set-up this year.

Again this year if one or more contacts are made using equipment that is totally powered by a source of energy that is derived from "natural" power, such as wind, solar or water power the FD group will get a 100 point bonus. So start THINKING! CW contacts will get double points for each contact.

The Northeast Preserve is located on Jones-Maltzburger Rd.--just north of Blossom Stadium. When you get in the park make all left hand turns till you get to the Camping area.

Finally, we will finish assigning operating positions and start assigning campsites at the first SARC meeting in June. Everyone is invited to come out and give us a hand. For further info please me at 341 8006.

73, Corky Sarvis WB5CIT FD Chairman

Technical Topics

By W5 LFM CAL GRAF

In the recent past, this column discussed the use of the audio tape recorder to retain records of amateur contacts instead of using a written log as has been done for many decades. Yet another electronic technique might well be on the scene if some enterprising electronic banker amateur can get into the act. A two-function electronic checkbook calculater has been announced by Mostek Corp. of Dallas using the name CheckMaster. The battery-powered machine, which is built into a plastic checkbook case and sells for $40, using a unique circuit design so that it can hold and display a checking account balance for a year.

When in the "off" position, the small IC chip is continously supplied with less than 100 microamperes of current and the user's balance is maintained in a static shift resister memory that is clocked only during actual operations requiring memory access. However, even in the power-up mode, the chip requires less than 2 milliamperes of current. There is also a power-up clear circuit so that the balance isn't changed when the unit is turned on each time it is used.

The amateur's version of the above would store all the required data in memory such as frequency in use, time inserted from a build-in crystal clock, emission, power, antenna, etc., so that only the call of the station worked would have to be entered by keyboard as is done now on a pocket calculator. You could easily send an electronic QSL card by means of data phone after 2300 local when the rate is about a quarter dollar any place in the country for 30 seconds time. Dick Tracy, huh?

Let's go one further. Master Specialties Company has recently introduced a solid-state voice system which replaces tapes and drums for limited word messages in voice readout. Take for example calling CQ or operating in contests when the same limited phrase is repeated a number of times. MSC has achieved a technique for digitizing and storing whole words in read only memories (ROMs). The result of whole word storage is synthesized voice no natural sounding, it is difficult to distinguish it from the original. All of the voice inflections and natural qualities are there. With each word stored in its own individual memory, it is a simple matter to access each ROM and call up the words in the sequence required for the desired message. In the standard model, the first 10 words are the numeric words zero to nine with additional words added as specified by the customer. Switch closures or a binary address are used to call up the desired sequence of words. What a thing that is to reduce SARC fatugue during the field day contest!

The following observation has not made its appearance in any U.S. journal (yet) so I would like to report it first in the SARC Bull-etin. It deals with "Stop action of Multiplexed Calculator Displays" in the following manner. A pocket calculator light emitting diode (LED) display is multiplexed in order to reduce power consumption from the battery source. The display is also multiplexed in order to reduce the number of interconnecting leads between the IC chip and the display. Only one digit at a time is displayed and these are sequentially changed so that the eye averages out the column of digits which appear to be on continuously. In a LED display, each digit is lit to many times its normal brightness for a fraction of the total time. A multiplexed display of a column of numbers thus appears to the eye to be lit to normal brightness.

It is possible to observe the fact that the LED display is being multiplexed (turned on and off) by holding a pocket calculator firmly in the hand while making a rapid back and forth motion with the arm as it is swung in a short arc. Darken the room slightly in order to show this to full effect. The row of digits being displayed will appear to jump in a "cops and robbers" strobe light manner as the arm is rapidly swung back and forth. The "on" & "off" times can be observed by comparing the height or size of the digits to the distance traveled during the off times.

A neon type display can also be observed to flash on and off even though the multiplexed display will appear slightly hazy to the eye because neon cannot be turned on and off as rapidly as a LED. Of course, a liquid crystal display (LCD) which operates off reflected light will be left in the dark (pun)! In addition, the LCD switching rate is considerably slower than that of a LED, being on the order of hundreds of milliseconds and thus do not multiplex very well. 73 Cal Graf W5LFM.

CLAY COMMENTS

A FREQUENCY COUNTER FOR THE HAM STATION -- PART 3

By W5ZPV CLAY LASTER

Part 2 of this series contained a description of the frequency counting and display circuits. It was called to our attention that we had an error--the CMOS IC chip is not faster than the TTL chip. We acknowledge this--it was an oversight on some references we were using. We should have mentioned that the emitter coupled MSI logic is used for counting speeds up to about 300 mHz. Irwin Math has a good article in the May 75 CQ magazine, concerning the use of a Fairchild 95H90 Emitter Coupled Decade Counter which is used in a VHF prescaler.

The first prototype counter was completed in April and the normal debugging problems were encountered. After changing the power supply design (eliminating a LM-309 voltage regulator which generated spurious spikes), the counter worked well with signals with amplitudes of 3 to 4 volts, peak-to-peak. We are currently researching for information to build a pre-amplifier which will allow signals of amplitudes in the order of 0.2 volts.

The circuit to be described in this issue covers the counter chain which counts the 1 mHz pulses from the 1.0 mHz frequency standard (described in our article in the Jan. 75 issue, BULL-ETIN), i. e. the 1.0 mHz crystal oscillator. A schematic of the first decade counter using the TTL SN7490 (Radio Shack Part No. 276-1808) IC Dual In-Line 14 pin Chip, is given in Figure 1. The initial 7490 divides the 1.0 mHz pulses from the crystal oscillator stage by 10 and produces an output of 100 kHz pulses. Figure 2 shows the block diagram for the complete counter chain which counts down to 1 pulse per second. The PPS is used to control a flip-flop for gating in the unknown signal. This portion of the counter will be described in the next article. It is to be noted that a one millisecond pulse is also generated by the counter chain. This output will be used in the frequency counter to count and display signals in the mHz range. The 1 PPS signals are used to allow the frequency counter to count signals in the kHz frequency range.

In regards to construction, the author used Radio Shack Dual Inline IC Boards (Part No. 276-024). For module construction and fabrication, this technique was found superior to custom designed PC cards. No. 12 bare bus-bar wire was used to assemble six of the IC boards into a compact counter chain assembly. Two holes were drilled in each IC board--one for the plus 5.5 volt supply (Pin # 5) and one for the ground (Pin # 10). Two lengths of # 12 bus-bar, approximately 6 in. long, were inserted into the holes to assemble the six IC boards in a neat package. (Note--install the 7490 chips and wire each IC board before assemblying the six IC boards into a complete unit.)

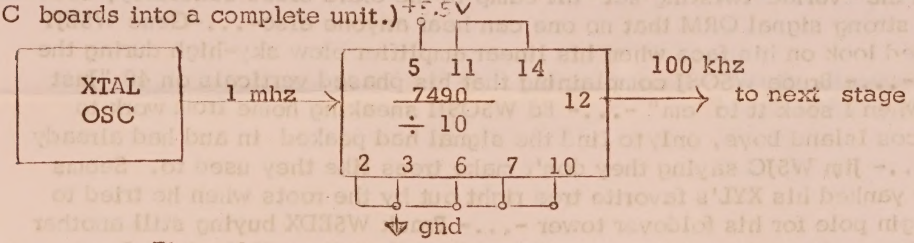

Figure 1 schematic for first stage counter.

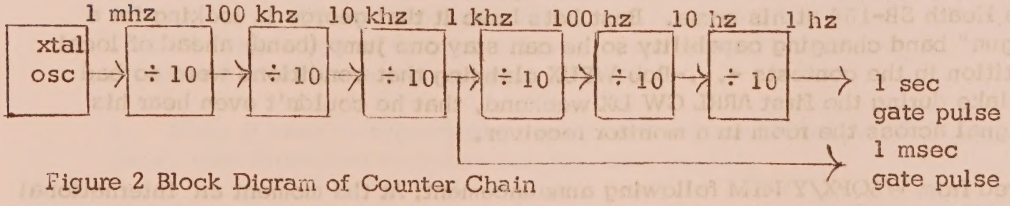

Figure 2 Block Digram of Counter Chain

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FROM HR REPORT

NOVICE GETS WHACKED for "failure to identify properly," other unspecified violations in a recent FCC Report and Order. WN5MGQ was hit with $200 "monetary forfeiture" for violation of 97.87a.

TOOLS FOR ELECTRONICS are offered in P. K. Neuses' Catalog 75A. Send request to Box 100, Arlington Heights, IL 60006.

Alamo DX Amigos

By W5LPO John Shean

At the meeting held at home of Jim K5UKN the main event was the showing of the XU1DX tape/slide shows of his Spratly Island DXpedition and the amateur stations and activities from south-east Asia. Another meetint was held on 25 April at home/shack of Les W5BE.

Band conditions for DXing have been at all time lows--so poor in fact, one club wag claims he can't even hear WWV to find out how bad things really are! Only the low bands of 7 and 3.5 Mhz have shown any degree of stability. These bands did offer frequent openings to Europe/Africa in early evenings and late night, with Asia and Oceania in morning hours. Usually good 14 Mhz band was very bad, but a rare few openings to Europe were heard For the month of May conditions are forcasted to be very good. A quickie sampling made at 5:30 pm local time on 24 April turned up the following signals on 14 Mhz in 15 minutes of monitoring--5L2JC, 5L2FT, CT1OY, EA3EU, 9G1AR, TU2DP, YV1ACS, KV4AB, K4TIF/TI2 and same sample on morning of 25 April showed 40 mtr CW yeilding many VK2-3 and Japanese signals. So it would appear that conditions are going upwards.

The local gang made quite a splash in the recent ARRL CW/SSB DX contests, coming up with a composite club score only 34,000 short of one million points. This is a real good showing considering some of our old reliables were off the air or had a visit from Ole Murphy. Next time we will not only bust one million, but will make it two! Scores reported were K5TSR, 512,639; W5LPO, 237,447; W5KCR, 108,204; W5PF, 44,000; W5OSJ, 25,374; W5EDX, 23,115; K5UKN, 16,128. Scores not received from W5BE were W5UX and W5EJT, who did participate to some degree. Band conditions for the four weekends were very poor, only on the last day of the CW test did a freak opening to northern/southern Europe on 14 Mhz liven up things for the gang. During the CQ WPX SSB contest on last March, conditions were so poor the boys finally gave it up as a bad job and quit. Recent DX "biggys" heard and worked locally was the DXpedition to the Island of Fernando Poo, off the coast of N. Africa and signing 3C1AGD. He was only up for one day instead of a week as forcasted. A good solid S-9 signal here. The Cocos Islands showed up finally as TI9DX and worked many stations. A good S-9 signal put in here also. Coming events to watch for will be another TI9 Cocos effort by a group from HB9 land--a two month operation from Gloriso Island in the Indian Ocean area by FR7AI/G--a Brazil radio club operating from Fernando de Noronho Island and later on St. Paul and Peter Rocks (Islands).

Heard in the pile-ups: John, W5LPO, groaning that his newly won extra-class priviledges did not help him one bit in the ARRL DX contests. Seems all the big super stations and the "variac-twisting set" all camp in the extra class sanctuary, causing so much strong signal QRM that no one can hear anyone else-...-Gene W5EJT with a startled look on his face when his linear amplifier blew sky-high during the CW contest -...- Bruce W5OSJ complaining that his phased verticals on 40 "Just arn't fazed when I sock it to 'em" -...- Ed W5OSH sneaking home from work to work the Cocos Island boys, only to find the signal had peaked in and had already faded out -...- Jim W5JC saying they don't make trees like they used to. Seems he dern near yanked his XYL's favorite tree right out by the roots when he tried to use it as a gin pole for his foldover tower -...- Frank W5EDX buying still another linear amplifier and heard mumbling something about "needing all the help I can get to reach that DXCC 300 mark" -...- George WB5LDN seen checking out a newcomers Heath SB-104 at his home. Best bets have it that george is looking for a "fast-gun" band changing capability so he can stay one jump (band) ahead of local competition in the contests -...-Bob W5UX claiming that conditions were so bad at the lake during the first ARRL CW DX weekend, that he couldn't even hear his own signal across the room in a monitor receiver.

Received from W5QPX/YN4IM following announcement: At the moment an International Amateur Hosting Club is being formed and we need chaps in "W" land to take care of DXers who will be travelling in USA. We already have signed up members in 5 states and Germany, with Italy, Switzerland, England and Canada pending. For more info please write G. L. Baker, W5QPX/YN4IM, 101 Rita Blanca Trail, Amarillo, Texas, 79108.

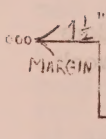
You too can lose sleep, hair, freinds, wives and whatever--BECOME A DXER! Don't wait--join Alamo DX Amigos now! Call John W5LPO at 696 1879 anytime for info.

73 de John Shean W5LPO

(RECOMMENDED FORMAT FOR RESPONSE TO FCC DOCKET
PREPARED BY HR REPORT)

John Q. Hamm
Docket 23456
(on additional pages only, in case they are separated.)

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D. C. 20554



In the Matter of

Notice of Proposed Rulemaking on (briefly describe the subject, for example: "Revision of Part 97, Amateur Radio Service Operator Privileges and Requirements.") — Docket No. 23456

COMMENTS

1. SUMMARY. (Briefly summarize your comments to give a reviewer a chance to see quickly what specific areas concern you.)

2. GENERAL COMMENTS. (This is the place to comment on the philosophy of the Docket, list any specific pros and cons on which you do not intend to elaborate further.)

3. WITH RESPECT TO ..... (This is where you tear into those things that really concern you. If you dislike ..... very much, say so, ... but give good cogent reasons for your dislike. If you have an alternate approach to ....., describe it and say why you think it would be better than the proposed ..... .)

4. WITH RESPECT TO ..... . (Each specific issue you discuss should have its own titled paragraph, again to aid the reviewer in finding those things that most concern him. Different Divisions of the FCC are concerned with different aspects of a proposal, so the easier you make it for someone to find your comments on a specific issue the more likely you are to be heard where it counts.)

Thank you for the opportunity to express my views.

Very truly yours,

John Q. Hamm
Amateur Radio WA1XYZ
123 Main Street
Yourcity, State 12345

Submitted: May 31, 1975

Notes:

1. Submit the original and 14 copies. A single copy submission will be accepted... but it will be read only by the Amateur and Citizens Division. Those 14 copies go to the Commissioners and other FCC Divisions -- where you might have an important impact!

2. Make it neat -- typewritten, and double spaced if practical. A neatly done, well organized response has the most impact.

3. If you submit more than one sheet, staple each of the 14 sets of sheets together. The back side of a sheet may be used, but remember 1 1/2" margin is on the right.

4. Keep it as brief as possible and still make your point... and keep it unemotional. Name calling has a negative effect.

5. Mail it to: Vincent J. Mullins, Secretary, Federal Communications Commission, 1919 M Street, Washington, DC 20554.

A DELAYED APRIL FOOL'S PRANK

At a mid-April meeting of the SARC General Code and Theory Class, Jim Stimson WN5NOR, who's been having his difficulties with a new HW-101 kit, brought it in and set it up to give George WB5LDN and Bob W5PKK a chance to offer their suggestions. The chassis was set up with the cabinet off and Jim made all the connections, then while he was busy making the final connection to the 110 VAC source, Bob took a long drag on his cigar and blew smoke under the chassis where it remained trapped. As the lights came on, smoke boiled out from every conceivable point. The next several seconds, while Jim frantically scrambled for the right cord to disconnect, completely defy description and better left to the readers imagination. Needless to say, Bob will be on his guard during the next few weeks.

de Bob W5PKK

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WANTED--Heathkit SB-610 monitor scope, SB 620 Spectrum Analyzer. Contact George James WB5LDN, 655 3934.

SURPLUS JUNK--Get rid of your surplus junk, call Mike Eley, 824 0939.

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SPLATTER By W5BGE

On page 5 you will find a format which will assist you in preparing your reply to FCC on Docket 20282. Study it carefully, you will find it very helpful. Every amateur should send his comments to FCC on the restructuring proposal..... This issue of the BULL-ETIN was delayed 3 weeks so that Roy W5EYB, our West Gulf Director of ARRL, would have a chance to give you ARRL's thinking from the May 15 board meeting..... ARRL's "Insurance Guide" (CD-82) has much useful information on adequately insuring your equipment, both in and out of the shack. Send a SASE to the League for a copy.....Pete Jordahl W5UJJ has recently been named the new manager of TEX, the Texas CW Traffic Net.....The highwinds and "tornado" at Von Ormy bent W5PEK's mast to such an angle that all his 450 antenna is good for is satellite or moon-bounce.....Art W5HKD lost his 80 mtr antenna during the highwinds.....The 2 mtr Sky-Warn Net has recently been very active and doing excellent work.....Mike Clark WB5FUS new address, 8170 Cross Creek, apt 1008, 656 7213, 78218.....Mike Ritterman has now passed his General Class, a very happy person.....Ken (Fuzzy) K5FZN has removed the Conditional from his General by taking the FCC exam May 7..... Beverly Janoita WA5CKA also received her General and Advance, May 7....The Alamo YL's hald their luncheon on May 21 at Luby's--Field Day was their main discussion.

The FCC has authorized the use of special call signs by amateurs during the 1976 bicentennial year. Amateurs desiring to use these special call signs may do so interchangeably with their present call signs during the period beginning 0500 GMT January 1, 1976 and ending 0500 GMT January 1, 1977. No prior approval from the Commission is required for any such use, and the use of the bicentennial calls is entirely voluntary. Use of these special call signs requires only the exchange of the existing prefixes with the specified prefixes AA through AL in the contiguous 48 states--i. e. WA calls use AA; WB--AB; W--AC; K--AD; WD--AE; WR--AF; WN--AK. Call sign prefixes outside contiguous U. S. also have been assigned.

Among the SAers area amateurs who attended the 7290 &Tex Tfc Net Picnic at Lake Whitney were: W5KLV, WA5OJC, WA5UYE, K5HZR, WA5JFZ, WA5KYX and W5BGE.....Heard on the airways recently: "Sorry you arn't able to copy me anymore. How about a sked tomorrow at this same time? ...."No you have got the call all wrong, it's....." ....."Okay, Okay, back for that final, final, final..."

de Dean W5BGE

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COMING EVENTS

STEN CONVENTION--June 6, 7, 8, Victoria, Holiday Inn, Hwy. 59.
Tex. VHF-FM Summer Convention--Aug. 1, 2, 3, Temple, Tex., Ponderosa Motor Inn
CHRISTMAS PARTY--Saturday, Dec. 6, Arden Grove Party House.

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FROM HR REPORT

TWO SOLDERING AIDS for home brewers offered by Kester Solder. First is a 8-page catalog of solders, fluxes and related products; the second a pocket-sized slide rule designed to aid selection of proper solder and flux for 22 different metals. Specs for 36 solder alloys are also included. Both are available on request from Kester Solder, 4201 Wrightwood, Chicago, Illinois 60639, Attention: Mack Hasburd.

P7 NEWS, and VIEWS, FROM THE WEST GULF DIVISION ARRL DIRECTOR

Never before in the history of ARRL has there been so great a response to a request for opinion as we've had concerning Docket 20282. Over 50,000 members responded!

A number of interpretations in the replies is possible, but the big message from the membership came through loud and clear, it was simply that THERE MUST BE NO LOSS OF PRIVILEGE BY ANY CLASS OF LICENSEE.

The board of directors responded accordingly, as will be seen by reading the minutes of the board meeting. Obviously of course, not all amateurs will be pleased with everything the board is proposing. But just as each board member had to compromise some of his convictions in search of that solution best for all amateur radio, it is hoped that all will recognize the changes recommended for the docket will be best in the long run for the great majority of us.

We hope the FCC will accept these changes and write the report and order accordingly.

Time and space do not permit detailed discussions of the board recommendations here - however the summary contained in Official Bulletin Nr 536 is reproduced below.

It is recommended that each of us who agree with the League's recommendations write the FCC and tell them so. Conversely, those in disagreement still have until June 16 to file comments (original and 14 copies) with FCC.

ARRL BOARD MEETING HIGHLIGHTS
Official Bulletin Nr 536 from ARRL Headquarters
Newington Ct May 17 1975 to all radio amateurs BT

The board of directors of the American Radio Relay League held its second 1975 meeting in Hartford, Connecticut on May 15-16, two months earlier than normal so as to permit formulation of League policy in responding to FCC restructuring proposals in Docket 20282. The board's decisions, to be outlined in extensive comments prepared for filing with FCC before the June 16 deadline, relied heavily upon the views of more than 50,000 members who returned the questionnaire survey of opinion mailed to all members in early March. The board rejected Commission proposals for reductions in power, mode, and special licensing privileges for General, Conditional, and Technician licensees, and supported retention of Extra Class exclusivity in the 3775-3800 Khz band. The board also rejected the proposal for a dual track licensing system split between the HF and VHF and the concept of an Advanced-VHF Experimenter license, but did accept the concept of a new VHF entry class to be called "BASIC AMATEUR." The Basic Amateur Class would require ability to recognize code characters but without a speed requirement; written exam same as Novice; tests given by two proxy examiners of General Class or higher; distinctive prefix; 5-year term, non-renewable but reobtainable on re-examination by proxy examiners. Privileges would be A-1, A2, A3, and F-3, 50 watts maximum input, 145.0-145.5 and 222 - 225 Mhz. The board endorsed a 5-year term for Novices, also non-renewable but similarly reobtainable on re-examination. Privileges would expand to include those proposed for Basic Amateur. ARRL will request use of all frequencies above 29 Mhz for Technicians, 50.0 - 50.1 Mhz additionally for Generals, and that present Technician and Conditional licenses continue to be renewable as now. New code speeds will be proposed at 15 words per minute for new Advanced tests and 10 wpm for Generals, with present Generals and Advanced to get automatic 15 wpm credit. The board will request no change in present power levels, and that input rather than output remain the basis for measurement. FCC's proposal for a lifetime Extra Class license was endorsed, with a request that holders of the old Amateur Extra First Class ticket get credit for the written exam. League comments will propose opening 21,250-21,270 Khz to Advanced Class phone, and 14,175-14,200 Khz to Extra Class phone. In other than regulatory areas the board authorized multiple year league memberships at reduced rates; directed the establishment of an awards fee schedule additional to that for DXCC; created an annual merit award for the best QST technical contribution; approved a 1979 National Convention in Baton Rouge, Louisiana; authorized appointment of regional coordinators in California; and instructed Hq to prepare Instructor Guides for code and theory classes in each license grade. The board ordered committee studies of the Communications Department field organization, a local chapter system in the league structure, cassette tapes for instruction in traffic and network operation, and data processing requirements at headquarters. MINUTES OF THE MEETING WILL APPEAR IN JULY QST. AR

MAIL ORDER EXAMS

It recently came to our attention that some volunteer examiners seem to be under the impression a code test is not required for disabled examinees. This is not correct. The code test is required for everyone. However, in the case of those with disability which precludes writing the test, other means of determining ability to receive code at the prescribed speed may be authorized. It is recommended that volunteer examineers check with FCC personnel before deviating from standard procedure. Also - the certificate required by examiners stating the examinee has complied with examination regulations, and the examiners certificate, should not be taken lightly. False certification could have serious consequences.

OKLAHOMA CONVENTION

Oklahoma Ham Holiday this year becomes a combined event - Oklahoma Ham Holiday and Oklahoma State ARRL Convention. This promises to be a great event. The program will include a flea market, MARS, QCWA etc meetings. A highlight of the convention will be a talk by QST technical staffer Tom McMullen, W1SL. Tom has provided us with some of QST's finest technical articles in recent years. His talk promises to be one of the outstanding events of the convention.

Ye director has been given program time in the evening of Saturday. Most likely this period will be devoted to a progress report on Docket 20282 and the League's position regarding the docket.

Convention location will be Southgate Inn, SE 51st St, Oklahoma City. Date: First week-end in August.

Let me know if you desire registration forms.

QST CHANGES!

Beginning with the January, 1976 issue, QST format will change from the traditional 6½x9½" size to 8¼x11".

General Manager Baldwin informs us the new size will permit larger print (a real benefit to those of us with diminishing eyesight and larger circuit diagrams. The latter will permmit the technical staff to give us more actual size printed circuit drawings.

Perhaps most important - the new size is a standard format and results in less cutting waste in printing which, with a new printing contract will reduce printing costs.

We understand the contract for QST printing has been given to a firm in Kentucky - hence, who knows, we might even receive QST more regularly on time, hi.

League Studies Possible Changes

ARRL President Dannals has appointed a committee to study the League's field organization and Communications Department, in the interest of revitalizing their operations and functions. Comments should be addressed to Vice Pres Carl Smith, address on p. 8 of QST.

Also, an ad hoc committee was appointed to develop a set of guidelines re establishment and operation of QSL bureaus. Address comments to Perry Williams, staff coordinator, Hq ARRL.

73, ROY L. ALBRIGHT, W5EYB, Director.

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Address Correction Requested

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